

LED Tracklight PURE S-21W-930-30



Light Output Ratio:	100.0%	
Luminaire Power:	20.26 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

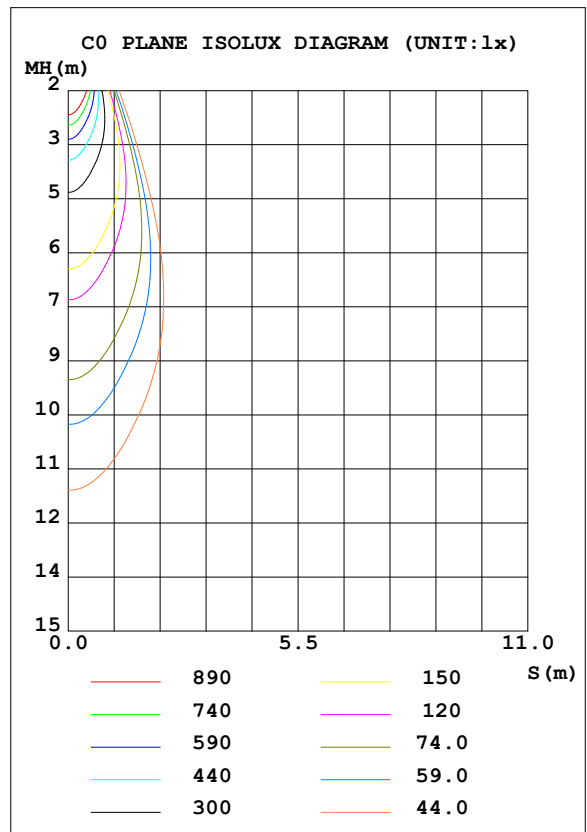
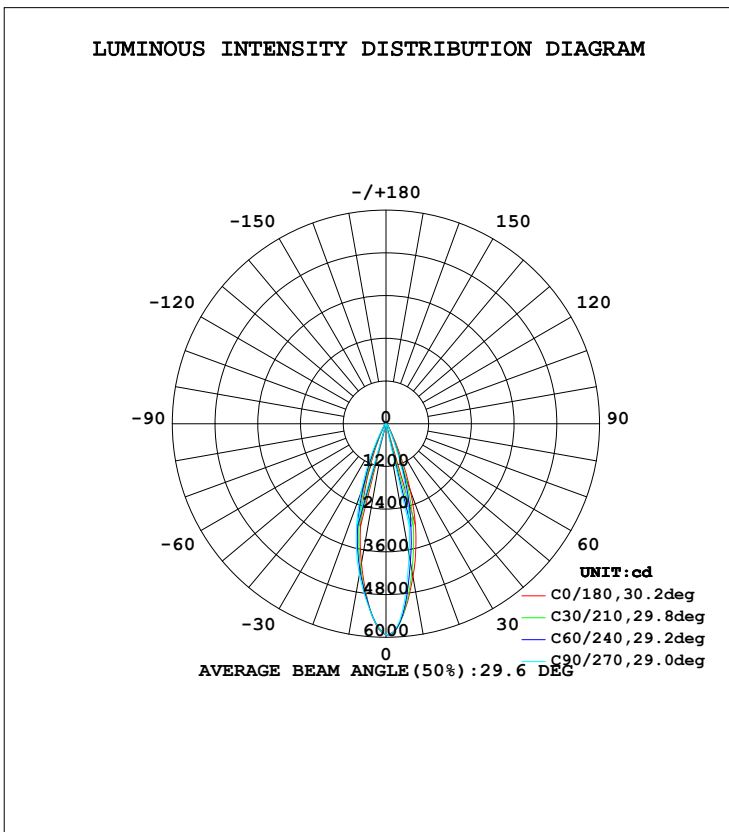
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-19

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0979A P:20.26W PF:0.9377 Lamp Flux:1797.51x1 lm		
NAME: PURE S-21W-930-30	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.72 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	5939	S/MH (C0/180)	0.47
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	0.53
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1797.5	η UP, DN (C0-180)	0.0, 45.5
NOMINAL FLUX (lm)	1797.51	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 54.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.50



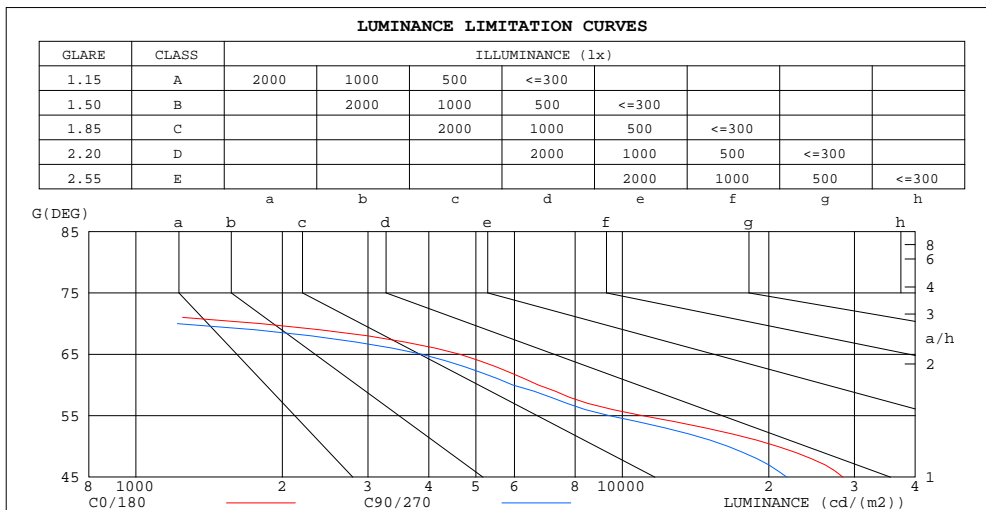
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	4366	4109	3740	3723	3983	4127	4303	4414	0- 10	465.5	465.5	25.9,25.9
20	2023	1519	1213	1145	1397	1703	2068	2241	10- 20	781.1	1247	69.4,69.4
30	347.9	268.4	223.4	219.4	239.8	282.4	393.1	433.6	20- 30	359.7	1606	89.4,89.4
40	105.2	95.71	86.78	82.39	88.46	101.6	122.5	123.1	30- 40	105.2	1712	95.2,95.2
50	51.57	47.38	40.79	39.27	43.86	47.57	54.90	56.63	40- 50	56.43	1768	98.4,98.4
60	12.91	12.62	11.44	10.89	10.88	11.72	12.70	13.14	50- 60	22.39	1790	99.6,99.6
70	2.380	2.256	1.600	1.174	1.087	1.283	1.830	2.224	60- 70	6.605	1797	100,100
80	0.1773	0.1442	0.1488	0.1180	0.1070	0.1357	0.1376	0.1750	70- 80	0.4307	1797	100,100
90	0.0896	0.0765	0.0809	0.0809	0.0612	0.0590	0.0634	0.0853	80- 90	0.1078	1798	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



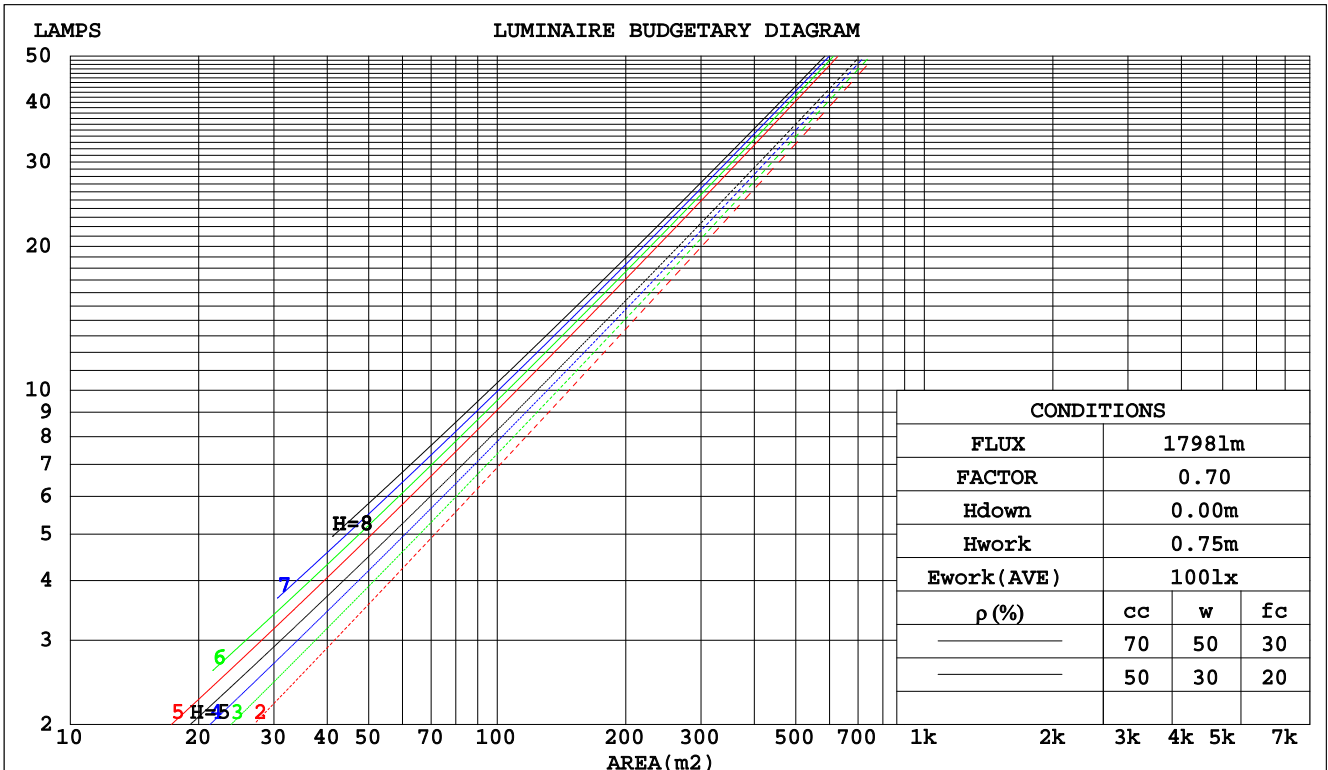
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.87	.83	.89	.86	.83	.88	.84	.82	.86	.84	.81	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
8.0	.81	.77	.73	.81	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.72	.71
9.0	.78	.74	.71	.78	.73	.70	.77	.73	.70	.76	.73	.70	.76	.72	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.67	.66



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WEC AND CCEC

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SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.150	.085	.027	.143	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020	
2.0	.141	.077	.024	.135	.075	.023	.125	.070	.022	.116	.065	.020	.107	.060	.019	
3.0	.133	.071	.021	.128	.069	.021	.119	.065	.020	.111	.061	.019	.104	.057	.018	
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.100	.055	.017	
5.0	.118	.060	.017	.115	.059	.017	.109	.057	.017	.103	.054	.016	.097	.052	.016	
6.0	.112	.056	.016	.109	.055	.016	.104	.053	.015	.099	.051	.015	.094	.049	.015	
7.0	.107	.053	.015	.104	.052	.015	.100	.050	.014	.095	.049	.014	.091	.047	.014	
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.046	.013	.088	.045	.013	
9.0	.098	.047	.013	.096	.047	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012	
10.0	.094	.045	.012	.092	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.073	.045	.026	.050	.032	.019	.029	.019	.011	.010	.006	.004	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0979A P:20.26W PF:0.9377 Lamp Flux:1797.5lx1 lm		
NAME: PURE S-21W-930-30	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	15.6	16.3	15.8	16.5	16.7	14.7	15.4	14.9	15.6	15.7
3H	15.5	16.2	15.8	16.4	16.6	14.6	15.3	14.8	15.5	15.7
4H	15.4	16.1	15.7	16.3	16.5	14.5	15.2	14.8	15.4	15.6
6H	15.4	16.0	15.6	16.2	16.5	14.4	15.0	14.7	15.3	15.5
8H	15.3	15.9	15.6	16.2	16.4	14.4	15.0	14.7	15.2	15.5
12H	15.3	15.8	15.6	16.1	16.4	14.3	14.9	14.6	15.2	15.4
4H 2H	15.5	16.1	15.7	16.4	16.6	14.6	15.2	14.9	15.5	15.7
3H	15.4	16.0	15.7	16.2	16.5	14.5	15.1	14.8	15.3	15.6
4H	15.3	15.8	15.6	16.1	16.4	14.4	14.9	14.7	15.2	15.5
6H	15.2	15.7	15.6	16.0	16.3	14.3	14.8	14.7	15.1	15.4
8H	15.2	15.6	15.5	15.9	16.3	14.3	14.7	14.6	15.0	15.4
12H	15.1	15.5	15.5	15.9	16.2	14.2	14.6	14.6	15.0	15.3
8H 4H	15.2	15.6	15.5	15.9	16.3	14.3	14.7	14.6	15.0	15.4
6H	15.0	15.4	15.5	15.8	16.2	14.1	14.5	14.6	14.9	15.3
8H	15.0	15.3	15.4	15.7	16.2	14.1	14.4	14.5	14.8	15.3
12H	14.9	15.2	15.4	15.6	16.1	14.0	14.3	14.5	14.7	15.2
12H 4H	15.1	15.5	15.5	15.9	16.3	14.2	14.6	14.6	15.0	15.3
6H	15.0	15.3	15.4	15.7	16.2	14.1	14.4	14.5	14.8	15.3
8H	14.9	15.2	15.4	15.6	16.1	14.0	14.3	14.5	14.7	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 4.6					+ 2.0 / - 4.6				
1.5H	+ 2.5 / - 3.8					+ 2.0 / - 3.1				
2.0H	+ 4.3 / - 5.2					+ 3.7 / - 4.7				

CIE Pub.117 Corrected 1798 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0979A P:20.26W PF:0.9377 Lamp Flux:1797.51x1 lm		
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REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	82	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	86	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

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Conical surface Flux(90deg):

1743.3 lm

%lum = 97.0%

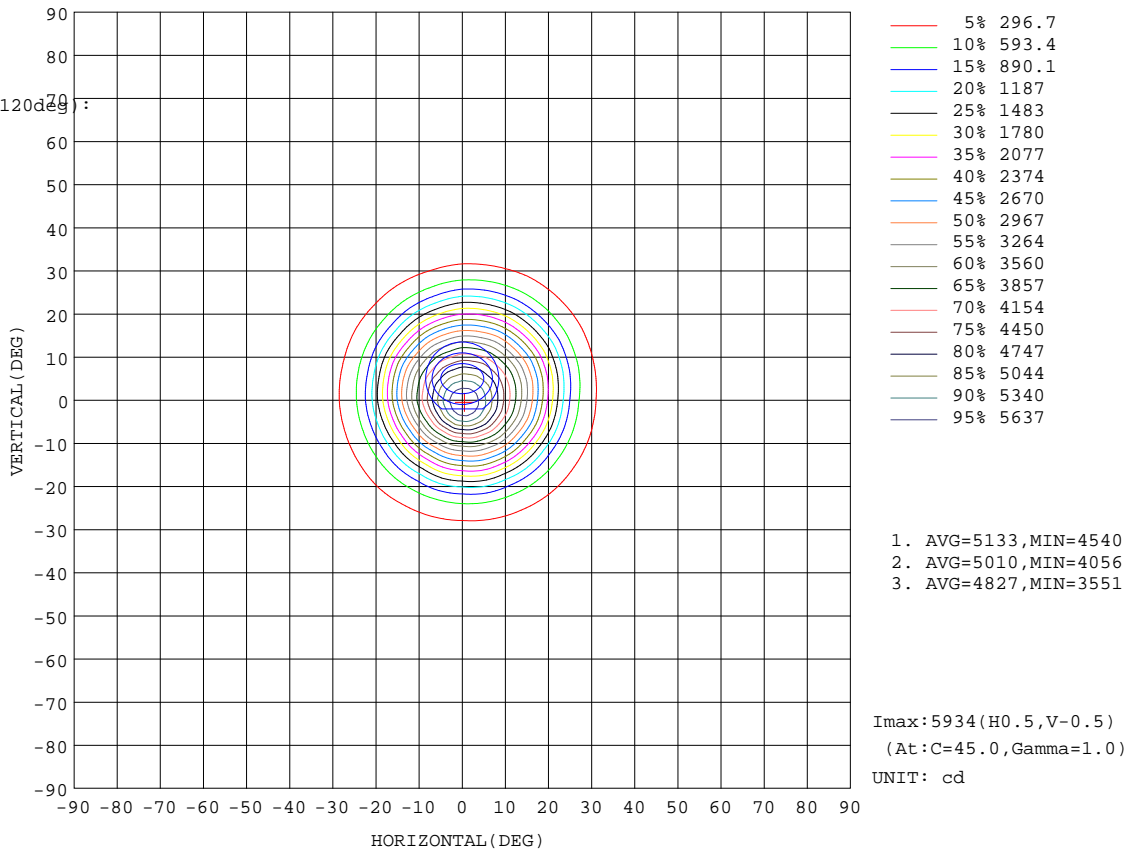
%lamp = 97.0%

Conical surface Flux(120deg):

1790.4 lm

%lum = 99.6%

%lamp = 99.6%

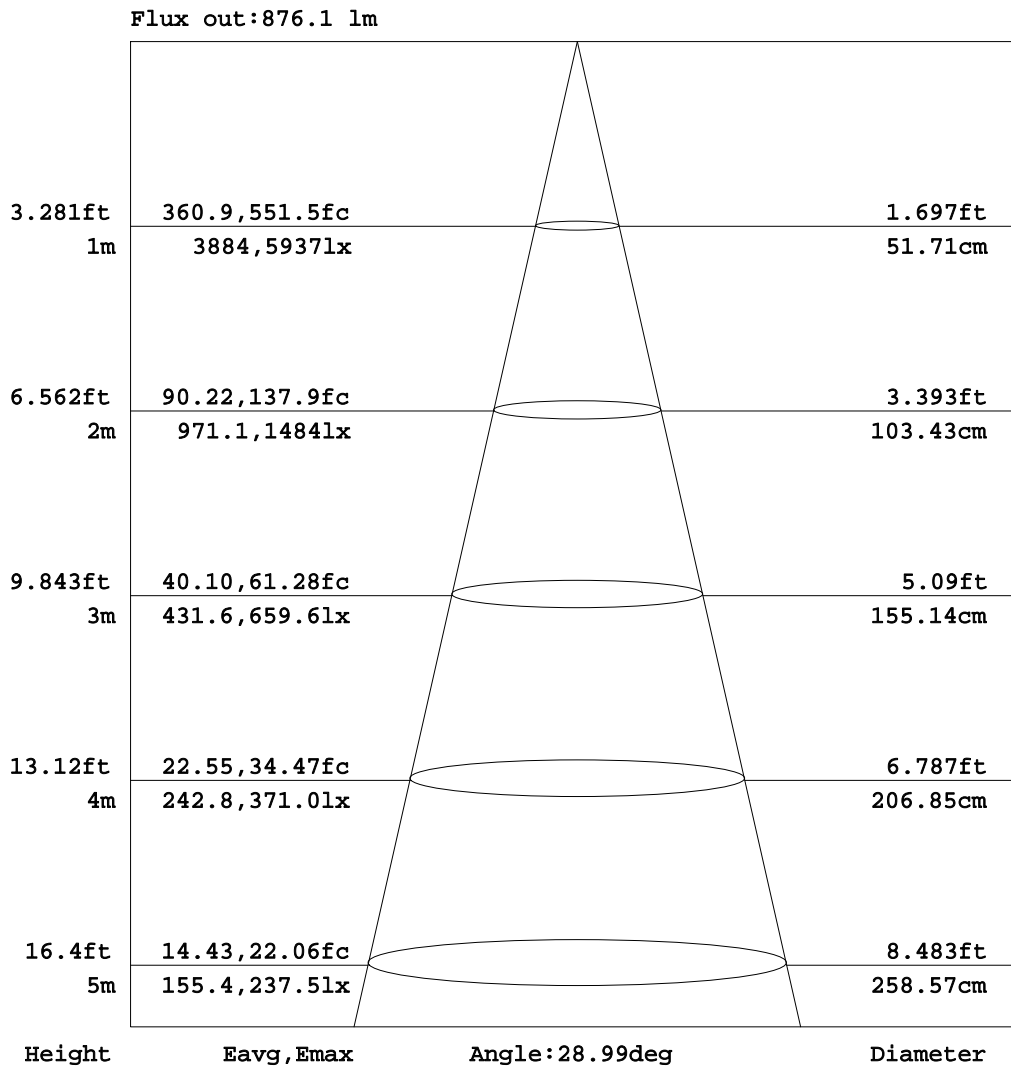


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AAI Figure

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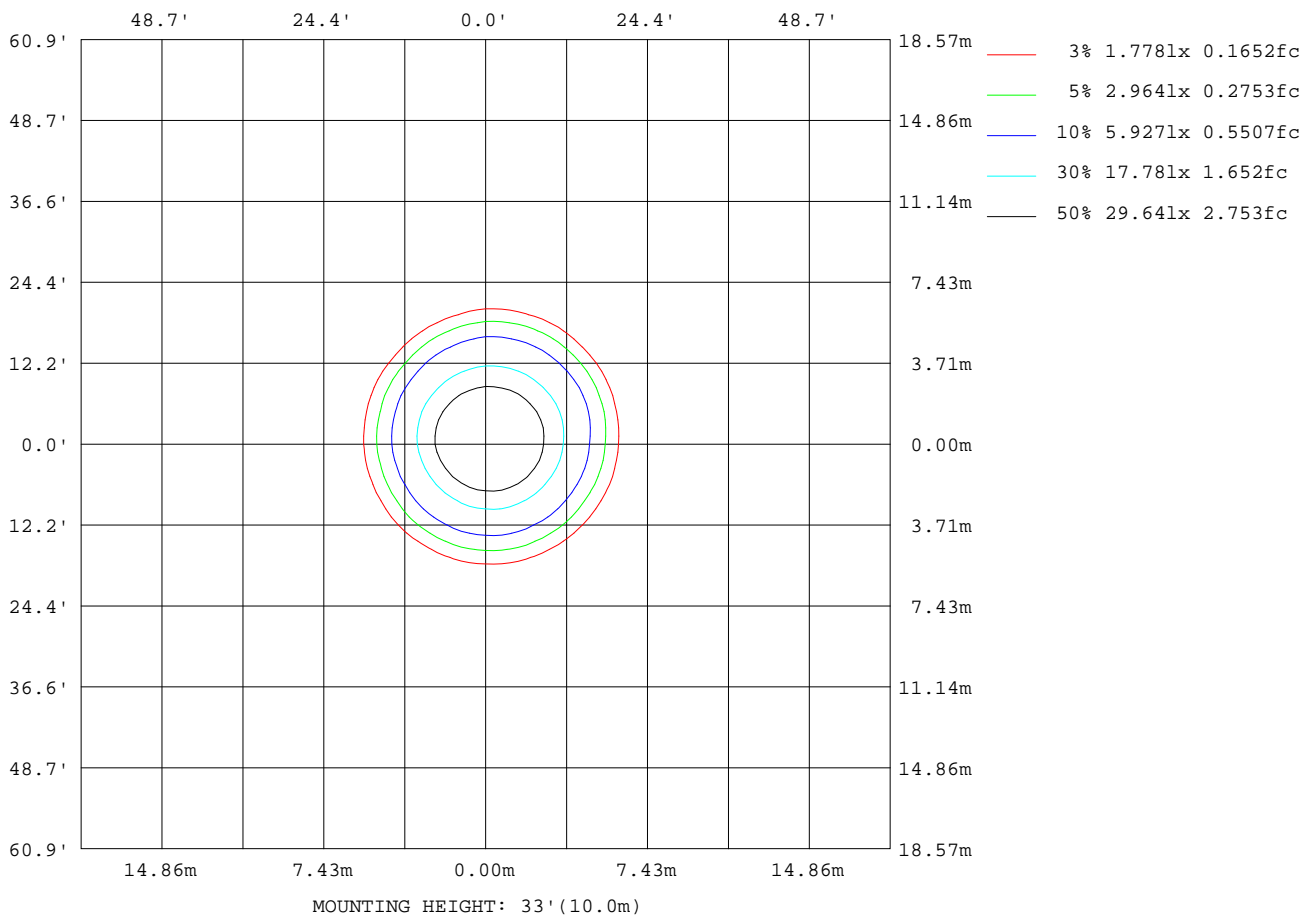
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

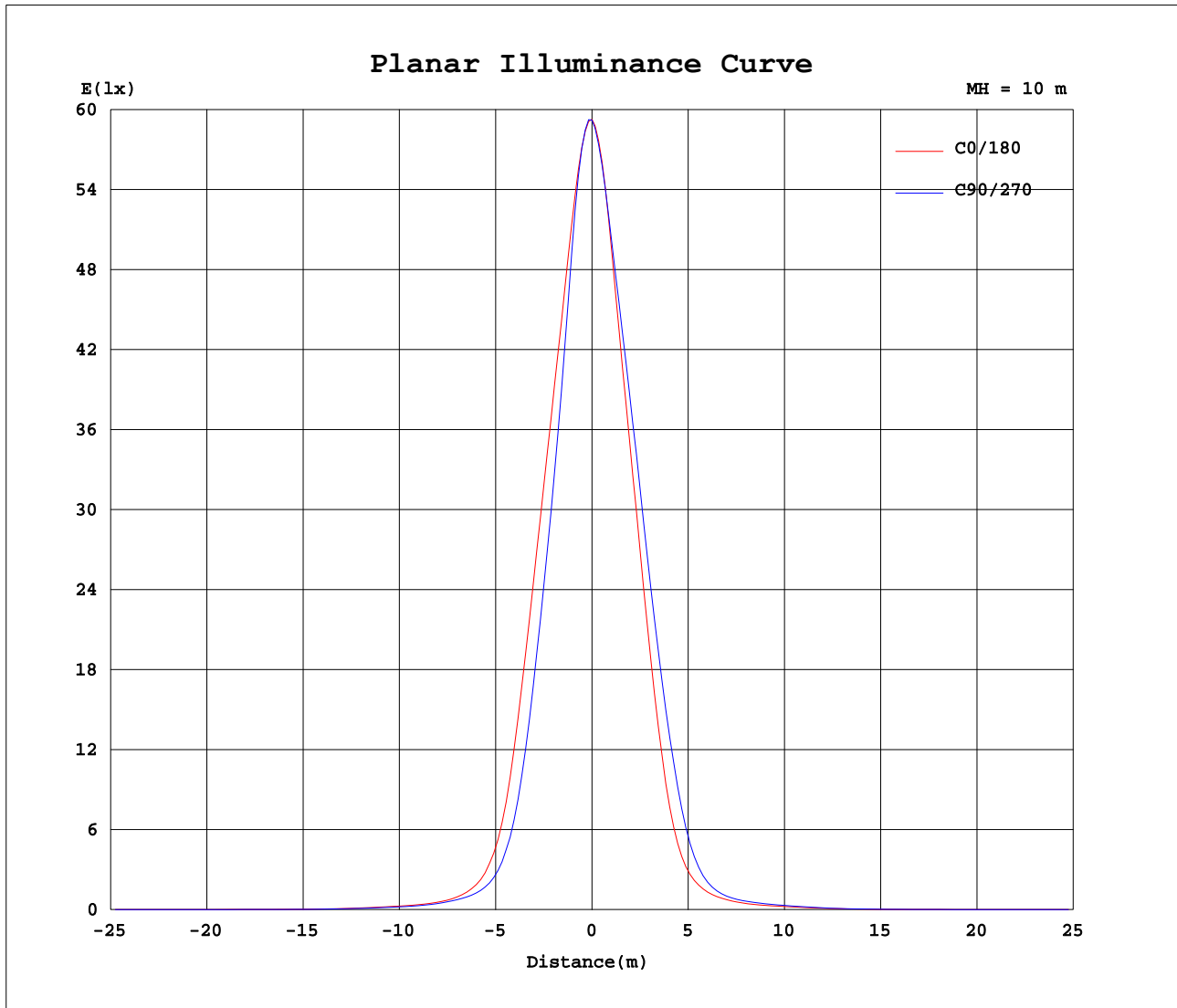
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Planar Illuminance Curve



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Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	5927	5923	5928	5921	5926	5918	5922	5916	5917	5915
3.0	5738	5773	5763	5781	5759	5765	5730	5727	5678	5669
6.0	5224	5249	5202	5208	5132	5098	5002	4998	4920	4927
9.0	4577	4556	4461	4387	4236	4163	4037	4038	3972	4021
12.0	3935	3858	3712	3594	3423	3310	3189	3166	3118	3170
15.0	3261	3154	2957	2816	2641	2547	2411	2376	2305	2352
18.0	2529	2394	2179	2023	1868	1785	1660	1625	1548	1580
21.0	1764	1613	1422	1304	1164	1105	1017	992.7	938.8	962.1
24.0	1060	954.4	828.7	755.6	668.7	628.5	590.8	559.7	554.2	553.8
27.0	599.8	539.8	467.4	427.0	387.0	364.4	342.1	332.5	324.8	333.1
30.0	347.9	322.6	290.2	268.4	246.5	235.5	223.4	219.6	213.9	219.4
33.0	223.9	213.1	197.0	186.3	175.1	169.9	163.2	160.2	156.8	157.0
36.0	155.1	150.6	143.2	138.8	133.5	130.1	125.3	123.1	120.4	118.5
39.0	114.5	110.8	107.3	104.9	101.2	98.33	95.30	93.84	91.31	89.97
42.0	91.89	86.97	83.61	81.67	78.82	75.86	73.40	72.78	71.87	70.74
45.0	77.25	72.79	69.35	67.23	64.81	61.63	59.26	59.30	59.04	58.42
48.0	62.91	60.53	57.61	56.28	53.57	50.96	48.63	48.71	48.32	47.56
51.0	45.75	44.78	43.19	42.73	40.73	38.78	36.71	36.65	35.85	35.00
54.0	29.03	29.04	28.12	28.50	27.16	26.04	24.34	24.28	23.25	22.49
57.0	17.77	17.80	17.46	17.86	17.42	16.87	16.12	16.12	15.63	15.14
60.0	12.91	12.90	12.54	12.62	12.08	11.97	11.44	11.34	10.99	10.89
63.0	9.574	9.521	9.207	9.138	8.800	8.662	8.253	8.157	7.827	7.789
66.0	6.460	6.481	6.238	6.184	5.832	5.683	5.266	5.176	4.868	4.767
69.0	3.288	3.381	3.168	3.130	2.842	2.748	2.421	2.295	2.001	1.909
72.0	0.9004	0.9707	0.8696	0.8443	0.6874	0.6377	0.4932	0.4292	0.3409	0.3142
75.0	0.2716	0.2512	0.2563	0.2337	0.2388	0.2163	0.2234	0.2032	0.2123	0.1901
78.0	0.2013	0.1792	0.1947	0.1683	0.1817	0.1638	0.1772	0.1508	0.1663	0.1420
81.0	0.1641	0.1420	0.1553	0.1332	0.1488	0.1223	0.1357	0.1136	0.1313	0.1049
84.0	0.1291	0.1027	0.1247	0.0983	0.1182	0.0917	0.1073	0.0831	0.1050	0.0765
87.0	0.1051	0.0831	0.0985	0.0765	0.0919	0.0765	0.0876	0.0809	0.0853	0.0766
90.0	0.0896	0.0831	0.0853	0.0765	0.0765	0.0765	0.0809	0.0809	0.0809	0.0809
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5913	5914	5923	5928	5921	5926	5918	5922	5916	5915
3.0	5622	5619	5630	5596	5603	5579	5594	5578	5606	5607
6.0	4888	4934	4984	4966	5004	4983	5022	5014	5063	5080
9.0	4033	4124	4224	4248	4327	4335	4402	4419	4494	4515
12.0	3209	3334	3481	3545	3646	3690	3779	3790	3898	3925
15.0	2395	2523	2690	2801	2922	2983	3093	3137	3236	3285
18.0	1613	1722	1889	2007	2150	2212	2347	2426	2536	2596
21.0	973.6	1044	1162	1242	1391	1459	1602	1706	1842	1911
24.0	567.2	595.0	652.8	703.7	789.5	846.1	972.3	1063	1209	1266
27.0	332.9	346.8	374.6	397.5	441.1	474.6	544.3	607.1	701.8	745.8
30.0	218.1	224.2	239.8	248.3	269.0	282.4	313.1	342.5	393.1	417.8
33.0	154.8	159.0	166.5	170.9	181.5	188.2	203.8	216.9	238.4	247.0
36.0	117.0	119.1	123.6	125.6	133.4	136.3	145.9	153.6	166.0	170.9
39.0	89.47	91.46	95.04	97.68	102.9	108.1	114.2	122.0	131.5	133.5
42.0	71.55	74.69	78.77	81.20	86.44	91.27	96.45	102.6	108.8	110.8
45.0	59.98	63.73	67.58	69.31	73.79	77.57	81.42	85.53	90.05	91.77
48.0	48.62	51.49	54.40	54.69	58.14	60.28	63.26	65.93	69.67	70.72
51.0	35.14	36.81	38.52	37.97	40.17	41.28	43.34	44.72	47.74	48.35
54.0	22.03	22.92	23.86	23.04	24.24	24.57	25.92	26.65	28.62	29.06
57.0	14.89	15.14	15.50	15.15	15.65	15.88	16.41	16.78	17.57	17.76
60.0	10.61	10.59	10.88	11.01	11.51	11.72	12.20	12.37	12.70	12.86
63.0	7.492	7.470	7.697	7.822	8.271	8.546	8.951	9.095	9.366	9.526
66.0	4.478	4.431	4.587	4.673	5.082	5.281	5.736	5.793	6.066	6.219
69.0	1.694	1.674	1.791	1.762	2.003	2.086	2.415	2.489	2.710	2.770
72.0	0.3020	0.2904	0.3119	0.3259	0.3316	0.3507	0.4161	0.4594	0.5568	0.6004
75.0	0.2036	0.1857	0.1813	0.2058	0.1879	0.2168	0.2074	0.2321	0.2249	0.2475
78.0	0.1619	0.1398	0.1333	0.1597	0.1377	0.1663	0.1486	0.1794	0.1638	0.1882
81.0	0.1248	0.1005	0.0982	0.1203	0.0983	0.1247	0.1113	0.1400	0.1266	0.1510
84.0	0.0985	0.0765	0.0699	0.0919	0.0699	0.0941	0.0764	0.1094	0.0960	0.1182
87.0	0.0831	0.0765	0.0612	0.0700	0.0568	0.0722	0.0634	0.0853	0.0699	0.0963
90.0	0.0765	0.0765	0.0612	0.0612	0.0568	0.0590	0.0590	0.0612	0.0634	0.0787
G/C	300.0	315.0	330.0	345.0						
0.0	5917	5915	5913	5914						
3.0	5655	5671	5716	5727						
6.0	5141	5164	5224	5228						
9.0	4592	4600	4647	4626						
12.0	4009	4026	4055	4019						
15.0	3383	3398	3431	3380						
18.0	2695	2714	2756	2692						
21.0	1980	1999	2023	1935						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-19

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	1326	1318	1333	1227
27.0	777.7	774.6	768.1	698.1
30.0	439.3	433.6	425.2	388.9
33.0	258.9	256.0	254.1	240.3
36.0	175.6	174.2	172.1	163.9
39.0	135.2	132.4	129.7	121.4
42.0	110.6	108.8	104.9	98.25
45.0	92.38	90.51	87.92	82.70
48.0	72.25	71.19	70.57	67.30
51.0	50.14	49.55	50.04	48.23
54.0	30.57	30.34	31.26	30.49
57.0	18.30	18.14	18.57	18.33
60.0	13.25	13.14	13.45	13.26
63.0	9.874	9.871	10.06	9.873
66.0	6.601	6.543	6.830	6.702
69.0	3.077	3.113	3.450	3.435
72.0	0.7262	0.7325	0.9411	0.9687
75.0	0.2402	0.2671	0.2620	0.2781
78.0	0.1726	0.1991	0.1835	0.2013
81.0	0.1333	0.1597	0.1398	0.1662
84.0	0.1027	0.1291	0.1092	0.1313
87.0	0.0765	0.1050	0.0831	0.1050
90.0	0.0765	0.0853	0.0809	0.0853

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-19

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks: